

# SAMATA

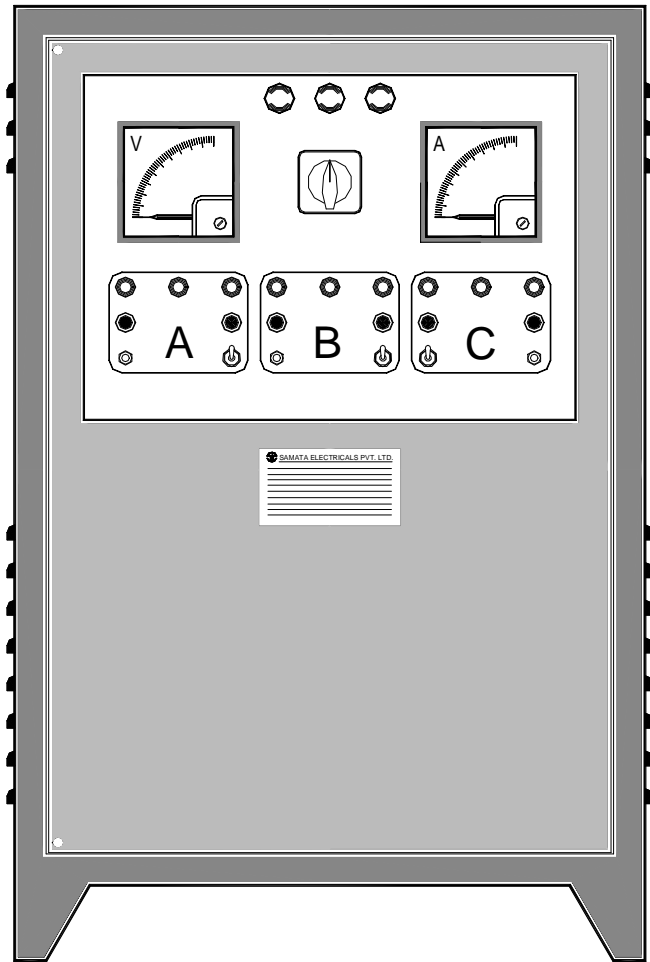
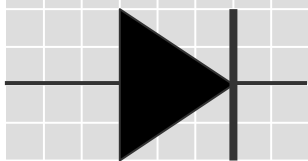
# The Complete Power

**TRANSFORMERS**

**STABILIZERS**

**BATTERY  
CHARGER**

**CONTROL  
PANELS**



# Solutions



## ■ INTRODUCTION :

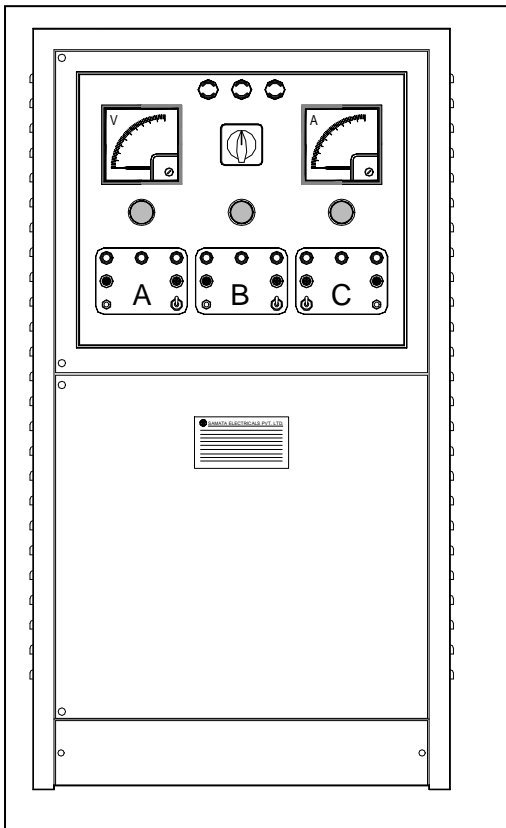
**SAMATA ELECTRICALS PVT. LTD.** Is in manufacturing activities since many years. We are manufacturing range of electrical & electronics equipments like :

- SAMATA Servo Controlled Voltage Stabilizers.
- Electroplating Rectifiers.
- Furnace Application Transformers, L.T. Transformers.
- Float cum Boost Battery Charger.
- Auto Transformers.
- Ultra Isolation Transformers.
- UPS & Inverters.
- All type of Control Panels.

These are manufactured by using latest technology to suit everyone's requirement and specification. Product reliability and our prompt service, strict adherence to I.S. Specification in manufacturing product has put the SAMATA ELECTRICALS PVT.LTD. growth always to upward trend ever.

We have highly competent engineers for Design & Development. Also Technicians and workman devoted in this field ensuring the best quality workmanship. Our commitment extends to develop product as per customer specification in order to meet there requirements of performance.

### □ SERVO CONTROLLED VOLTAGE STABILIZER



In order to cater for input voltage fluctuation SAMATA manufactures voltage stabilizers of all ranges. SAMATA servo controlled A.C. Voltage stabilizer are specially designed incorporating the latest technology to protect equipment from harm cause by input voltage fluctuations. It consist off

**VARIAC :** Continuously variable voltage auto-transformer operated by high torque synchronus motor.

**TRANSFORMER :** It is double wound type buck-boost series transformer, wound with best quality electrolytic copper conductor, Core material used are of high grade (CRGO) silicon steel.

#### **SALIENT FETURES :**

- Efficiency better than 98%.
- Low internal impedance.
- Fully solid state controlled circuit.
- Wave form distortion NIL.
- No effect on load power factor.
- No effect on frequency.
- Faster rate of correction
- Elegant look.

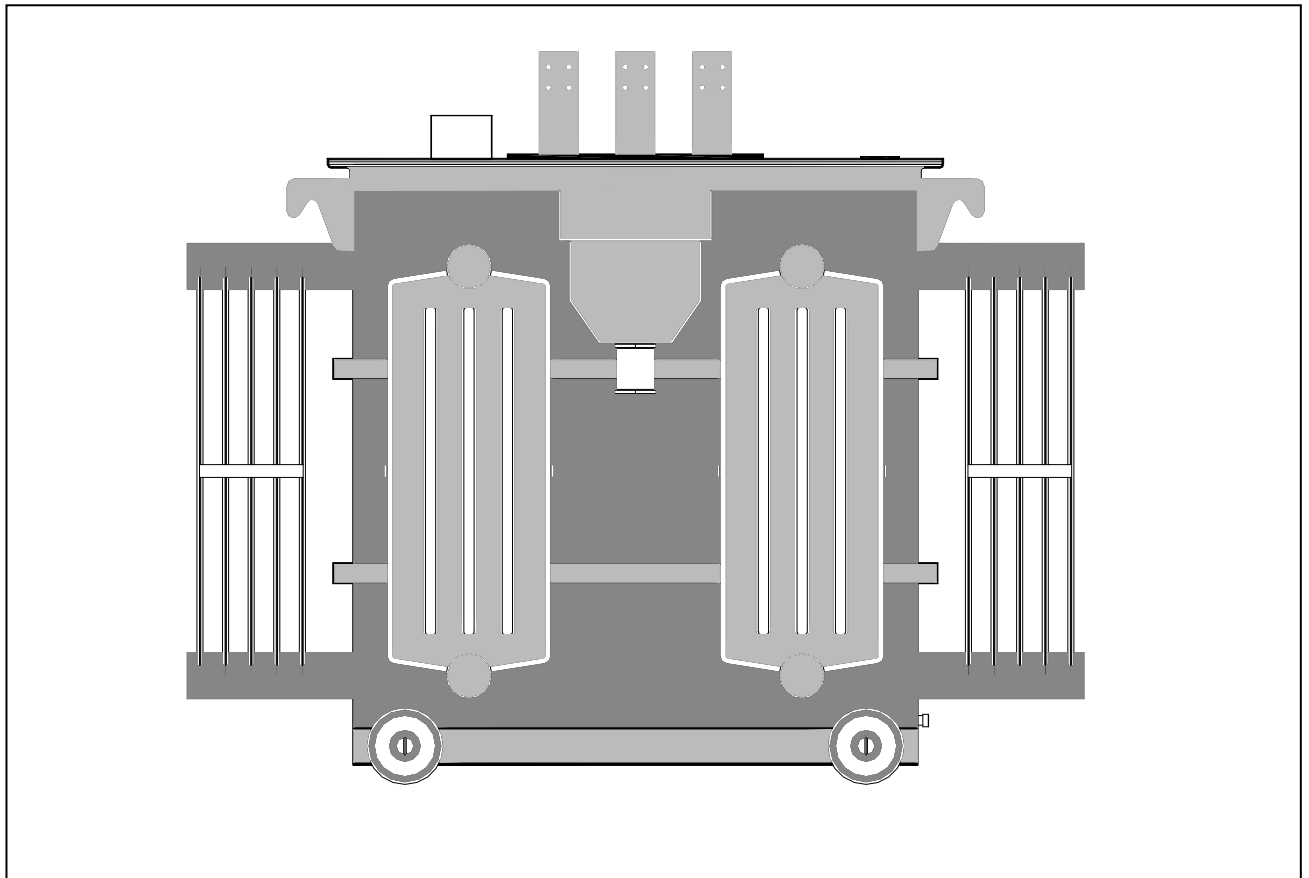
## **TYPE OF MODELS :**

- ❑ Single Phase : 1) Double wound type (WW), 2) Buck Boost Type.  
Capacity : 0.5kVA to 100kVA
- ❑ Three Phase : 1) Unbalance Type (UBR) i.e. for unbalance input voltage & unbalance load.  
2) Balance Type (BSS) i.e. for balance input voltage variation & balance load.  
Cooling : Air Cooled / Oil cooled. Capacity : 1kVA to 1500kVA.

## ❑ **TRANSFORMERS**

All transformers confirm to IS Specification no. IS:2026, 1977 . Class of insulation from 'A' to 'F' class. The transformers are designed for indoor use at ambient of 45°C (or as per customer specific ambient temp.). Air cooled transformers are supplied in open type or in steel sheet enclosure. Oil cooled transformers are contained M.S. tank and depending on its capacity, maybe plain or with cooling radiators on sides. Transformer oil as per IS:335 is recommended.

- ❑ **TYPE :** 1) Auto transformer 10/30 2) Double wound transformer 10/30



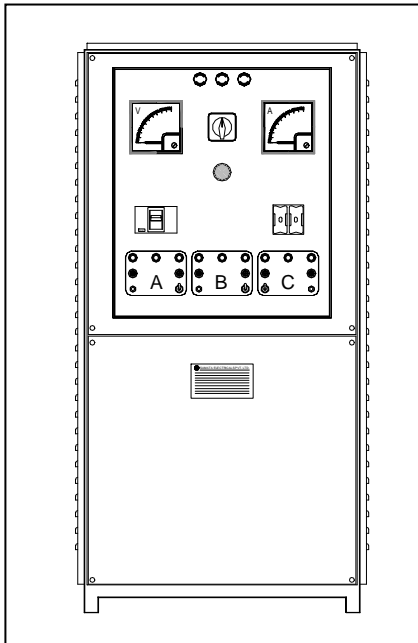
## ❑ **FURNAS APPLICATION TRANSFORMERS :**

**CORE :** The core is made out of high quality Cold Rolled Grain Oriented (C.R.G.O.) silicon steel laminations of M4 grade/0.27mm thickness and is coated with magnesium silicate phosphate insulation on both sides.

**WINDING :** The winding are made of rectangular or round section of electrolytic grade copper with specification of insulation.

**CAPACITY :** 0.5KVA to 500KVA.

## RECTIFIER



Rectifier are generally manufactured as per customer's specification. It depend upon the plating to be done. Following voltages are recommended.

- 1) For Electroplating Rectifier 0-18 Volts.
- 2) For Anodizing Rectifier 0-32 Volts.
- 3) For Hard Chrome Rectifier 0-125 Volts.

Current ranges for above can be from 50Amps. To 1000Amps.

Rectifier can be manufactured either in Air-cooled or Oil-cooled type only.

Types of Rectifiers in our regular manufacturing range.

- Electroplating rectifier variac controlled.
- SCR controlled rectifier.
- Constant current / constant Voltage rectifiers.  
(Thyristoriesd / Auto transformer (variac))

## BATTERY CHARGERS

SAMATA Battery chargers are Thyristorised full wave half controlled type and highly reliable D.C.

Power system.

### **SPECIAL FEATURES**

- D.C. Output voltage stabilization within 1% independent of input voltage and load current variation.
- In built voltage dropping characteristics to pass momentary or short time over load on battery.
- Dead short circuit protection in auto-mode.
- Charger hav facility to operate in manual mode in case auto-mode fails.
- Soft start feature to minimize the inrush current into battery.

**CAPACITY :** Battery Chargers up to 100KW to meet the load and to charge the batteries of 24V., 48V., 110v. and 220V. from 24AH to 200AH or any custom made range.

### **ALL TYPES OF CONTROL PANELS**

- Distribution Panel
- AMF Control Panel
- Temperature control panel
- MCC & Starter Panel

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**For all your requirements & for further queries please contact :**

## **SAMATA ELECTRICALS PVT. LTD.**

**Registered office:**

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